# Innovative mobile generator for emergency fast charging of electric vehicles and drones - (EV Rescue DC 20 kW)

### Summary

Profile type	Company's country	POD reference
Technology offer	Poland	TOPL20250617003
Profile status	Type of partnership	Targeted countries
PUBLISHED	Commercial agreement with technical assistance	• World
Contact Person	Term of validity	Last update
Enrico FRANZIN	17 Jun 2025	17 Jun 2025
	17 Jun 2026	

# General Information

#### Short summary

A Polish company has developed a compact, lightweight (55 kg) and efficient mobile generator designed for emergency fast charging of electric vehicles (EVs) and drones. Operating on LPG or petrol, the solution delivers up to 20 kW of continuous DC power and is optimized for rapid deployment in crisis or off-grid conditions. The company is looking for commercial, B2B, and R&D partners interested in further development, distribution, or field testing.

#### Full description

The Polish SME has created an innovative portable generator – EV Rescue DC 20 kW – capable of delivering highpower DC fast charging (CCS2) for electric vehicles and aerial drones in critical or remote scenarios. The solution is designed for emergency mobility support, including roadside assistance, military operations, field hospitals, and off-grid construction sites.

The generator features a net continuous output of 18–20 kW, is fuel-flexible (LPG or petrol), and weighs only 55 kg, ensuring easy transport and quick deployment. In optimal conditions, it can provide up to 50 km of EV range in less than 45 minutes.

This innovative product meets the growing need for mobile, off-grid EV charging infrastructure, especially in locations where grid access is limited or non-existent.









Key technical features:

- Continuous DC output: 18-20 kW
- CCS2 emergency fast-charging interface
- Dual fuel: LPG (2-3 kg composite tank) or petrol
- Total unit weight: 55 kg
- Integrated control and cooling module
- Includes mobile app for operation and diagnostics
- Applications include:
  - Emergency and roadside EV charging (including highways)
  - Military and humanitarian missions
  - EV fleet and service support (e.g. mobile bus service units)
  - Off-grid construction projects
  - Mobile energy supply in disaster zones or rural areas
  - Remote medical support and field hospitals
- Kit contents:
  - EV Rescue 20 kW generator
  - CCS2 DC charging cable
  - Control module with integrated cooling
  - Documentation and mobile app
- The company is now seeking commercialisation partners, B2B collaborators, and R&D entities interested in:









Lightweight and portable (55 kg) design for field use Fast charging capability (up to 50 km EV range in <45 min) Dual-fuel flexibility: LPG or petrol Ideal for critical infrastructure, fleet service, and rescue missions Enables energy independence in off-grid locations

Technical specification or expertise sought

Stage of development

Concept stage

Secret know-how

**IPR** Notes

## Partner Sought

Expected role of the partner

The company seeks:

Commercial partners for distribution and sales

B2B collaborations for fleet and energy service integration

R&D partners for further technical development and adaptation to specific market needs

Type of partnership

Type and size of the partner

Sustainable Development goals

Goal 7: Affordable and Clean Energy





Profile TOPL20250617003



Commercial agreement with technical assistance

• SME 50 - 249

## Dissemination

#### Technology keywords

- 04007001 Energy management
- 04007004 Thermal insulation
- 04002005 Generators, electric engines and power converters

Targeted countries

• World

#### Market keywords

- 06008 Energy Storage
- 06011 Energy for Transport
- 06006003 Heat recovery

Sector groups involved



